



Working in a broad partnership in the Kenya Miniwind Project

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Working in a broad partnership in the Kenya MiniWind project

Danida Market Development Partnerships, Information Meeting, DTU 26 June 2017

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UNEP DTU Partnership,
DTU Management Engineering

Kenya Miniwind



Long term objective

To stimulate economic growth, poverty reduction, and sustainable energy supply in rural areas in Kenya.

The immediate objective

To create **local employment** and **reduce the cost of electricity** which will favour disadvantaged communities in rural areas :

- by facilitating partly **local production** of low-cost wind turbines and
- by demonstrating integration of these turbines in private and publically owned mini-grids in Kenya.

Impact

The project will contribute to Global Sustainable Development Goal (SDG) 8 through **stimulated economic growth** in rural communities and in an labour-intensive wind energy sector

In addition, the project will contribute to SDG1, SDG2, SDG3, SDG4 SDG7 and SDG9.

Vestas V 15 55 kW

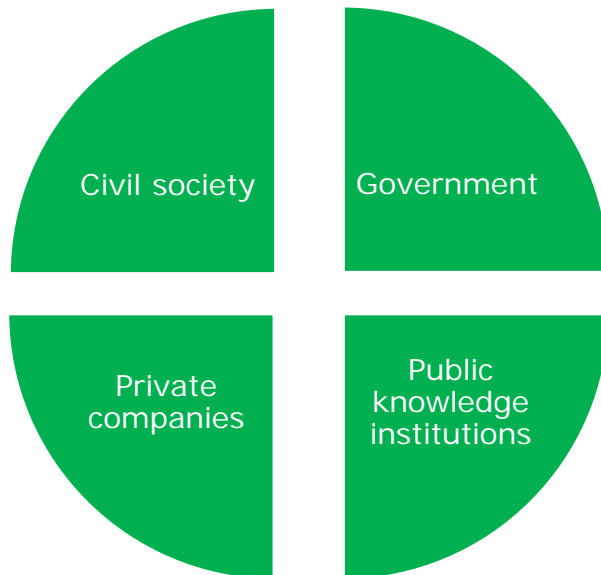


Public private collaboration



Sustainable Energy

- Mini-grid developers
- Wind turbine developer (Vestas)
- Local suppliers



- Rural Electrification Agency
- Ministry of Energy
- Energy Regulatory Commision
- Kenya Climate Innovation Centre
- Technical University of Denmark
 - Unep DTU
 - DTU Wind
 - DTU Electro

Project outputs

- Enabling framework and market creation for mini grids with wind power supported by relevant Kenyan authorities
 - Market study, enabling frameworks, need for standards
- Local community requirements to mini-grids with wind power
 - Feasibility studies, community dialogue, model for expansion
- Capacity of mini-grid developers and local SMEs to integrate and produce wind turbines enhanced
 - Partly local production, suppliers, decision making tool, training of stakeholders
- Wind turbine designed, demonstrated and tested
 - Vestas design, demonstration, business model, contracting, maintenance, monitoring.

So why should we engage in this as a university ?



Part of DTU's strategy

- Scientific advice to national authorities
- Innovation and industry collaboration
- Sustainable development goals

What we already do: (research and advice)

- Policy frameworks, modelling, planning
 - RE, Mini-grids
- Wind mapping, modelling
- Smart grids, RE-integration
- Working with industry, governments, Universities and NGOs
- Working across departments (REPLI)

What is new ?

- Working under leadership of a Danish NGO
- Working with a private company in a developing country context
- Being close to implementation in developing countries

What are the benefits ?

- Bringing research into practice
- Bringing practice into research
- Bringing different cultures and perspectives together
- Great potentials to make a difference



Thanks for your attention